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319 Market  
Street of D. Hornel

Copied March 7, 1836  
D. E. H.

An Essay

on

Laryngeal Tracheitis

for the

Degree of Doctor of Medicine in the  
University of Pennsylvania

By William S. Keck

of Henry County, State of Tennessee  
Philadelphia January 1, 1836

This disease  
every person  
and family  
ordinarily  
childhood  
disease  
however  
the course  
of bronchitis  
a disease  
and, is  
It is hoped  
it to be more  
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Syringo-Tracheitis, - Croup

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This disease requires the careful consideration of every practitioner of medicine; its rapid progress and fatal tendency render it a subject of no ordinary interest to mankind. Infancy & childhood are the periods of life, to which the disease is almost exclusively confined; instances, however, of its attacking adult age are upon record - this is a rare circumstance. The history of croup is veiled in some obscurity. Whether it is a disease of modern date, or has existed from remote ages, is a point upon which authors disagree. Dr Boopeland affirms, that evidence of its existence is to be met with in the writings of Hippocrates; Dr Sygne accounts for there being no precise description of this disease prior to the middle of last century, by charging ancient physicians on the authority of Harris with great inattention to the diseases of children; so great was this neglect he informs us, that the most eminent of them went, when called to their assistance with

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great reluctance believing this disease incurable.<sup>2</sup>  
To what degree, if any, the physicians of older times  
are deserving of this charge my knowledge of their  
writings will not enable me to say; but it is, I  
believe, agreed upon by all writers, that no  
precise account of this disease is to be met with  
prior to Home's essay, which was published in  
1765. Since this period Croup has engaged the atten-  
-tion of some of the first talents in the profession &  
it is to be regretted that the views of these eminent  
writers, regarding the true nature of the disease  
should so widely differ. Upon this subject however,  
like most others in medicine, unanimity of senti-  
ment will be sought for in vain; scarcely any  
two whom I have been able to consult agree  
in any particular; were this discrepancy confined  
to the minutiae, it would have been well, but the  
difference of views as to the very essence of the  
disease among some is fully as wide. At one  
time & by one party the disease was considered as  
purely a spasmodic affection; by another infla

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-mmation was alone concerned, & a third has attempt-  
ed a compromise by supposing both inflammation  
& spasm have their appropriate cases. Before path-  
-ological investigation was well understood and  
practised it was impossible to say with certainty  
which party was correct in their views, as the symp-  
-toms could in some degree be explained by  
either, tho' it would seem the comparative success  
in the treatment, by those who held the opinion that  
the disease was purely an inflammatory affection  
ought to have decided the point. The proportions  
of deaths formerly, are said to have greatly exceeded  
that of the present day. I know not what to attribute  
this difference of success, if it is not owing, to the  
active antiphlogistic treatment pursued at the  
present time. My views of Croup are derived entire-  
-ly from books, & from these I am induced to  
adopt the opinion that it is in nearly every instance,  
if not always, an inflammation of the Mucus  
membrane of the larynx & trachea; that it is never  
of a spasmodic nature I am not prepared to assert,

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tho this is the opinion of two writers (Dr Cheyne & Bennett) whose experience in this disease is, probably, as extensive as any who have ever written upon it. I find however, that Dr Chapman in his Therapeutics - never having heard him lecture upon it - supports the view that it may sometimes depend primarily upon spasm of the muscles of the larynx - inflammation sometimes occurring, as a consequence, precisely in the same way that inflammation of the intestines is produced by colic. His reasons in support of this view are - That the attack is sometimes too sudden to be caused by inflammation, that time is required to produce that change in the capillaries, upon which inflammation depends & where it occurs thus suddenly, without any warning, & terminating life in a few hours, the cause of death will have to be referred to a different source than inflammation. He further appeals to the mortal appearances of those cases occurring thus suddenly in support of this view; in many of which no evidence of inflammation is to be seen; should, however, the disease

*[Faint, illegible handwriting on the left page, likely bleed-through from the reverse side.]*

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have continued long enough to produce inflamma- 5  
tion, the same has happened in Colic & is therefore  
no reason why it should have been inflammatory  
at initio. The views of the distinguished professor  
whose argument I have just given are to me  
exceedingly plausible, but that the case to which  
they are applicable is of very rare occurrence I  
am strongly disposed to believe. The diagnosis  
in these two varieties will be assisted by an enquiry  
into the manner in which the disease attacked,  
whether it was preceded by catarrhal symptoms,  
or came on suddenly; added to this the pulse & tem-  
-perature, which in the inflammatory variety are  
above the natural standard, this is not the case  
in the spasmodic form. The latter is said to be atten-  
ded with complete intermissions. With the excep-  
-tion of blood-letting the remedies adapted to the  
inflammatory variety would be applicable to  
the spasmodic form, & my remarks upon the  
disease in the following lines will be intended  
solely for the inflammatory variety.

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Inflammatory Croup has by most writers been divided 6  
-ded into Acute & Chronic; The only difference so  
far as I can learn is in the activity & severity of the  
former; The indications in the treatment are the same,  
but the remedies for the acute should be more active  
& energetic. In treating of Croup, I shall divide  
it into two stages, a section calculated to mark  
the its progress & the remedies adapted to each. The  
first will describe the disease before effusion  
has taken place; The second after effusion  
has taken place.

### First Stage

Symptoms— Before the disease is fully developed  
it is generally preceded by certain premonitory  
symptoms which to one much accustomed to it  
will readily be recognized as those of Croup.  
These symptoms mostly <sup>resemble</sup> common Croup, differing  
from it chiefly in the sound of the cough— that of  
Croup sounding as if it issued from a metallic  
instrument— vibrating, in other respects the  
premonitory signs of an attack differ but little

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from those of incipient Catarrh. These symptoms  
by most writers have been described as hunc Catarrh,  
but Dr Sarsus denies their identity; his chief  
diagnosis is in the cough. These symptoms may  
continue for several days before the disease is fully  
developed, or they may be relieved in a very short  
time by an alarming attack; in every case Dr  
Sarsus affirms there are distinctive marks.  
When the disease is fully formed all difficulty  
as to its nature vanishes, the secret too is not  
is attended every attempt at breathing is  
increased by a strong, hoarse sound; the breathing  
becomes difficult, particularly inspirations, which  
has been compared to a piston forced up a pump-  
-ing & hissing. The cough is dry & clanging,  
very seldom attended with any expectorations  
sometimes however a white viscid substance is  
expectorated; the face is flushed, eye-lid turn  
-injected; mind grows & time is slow passing.  
The difficulty of breathing is sometimes so great  
in this stage as to prove the cause of death.

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instances of which are upon record, but this is 8  
of very rare occurrence, for unless the disease is  
speedily arrested effusion takes place & we then have  
the Second Stage.

After effusion has taken place there is a moment  
- any relief, but soon the case becomes much aggravated,  
the countenance becomes altered, it is no longer  
flushed but is succeeded by pallor, & a hoarse  
breathing is much more difficult & laborious. The  
child is said to be very restless frequently changing  
its position in order to breathe with more ease.  
"its head is thrown back & mouth opened to facili-  
tate the ingress of air". The cough is more pro-  
- uent attended with an expectoration of "thin  
frothy mucus" at first, which affords little relief  
from the continued effusion. The matter expec-  
- torated varies in consistence; sometimes it is of a  
mucous purulent nature, at other times it is of a  
firmer consistence. From the almost constant effort  
to remove the obstruction to respiration by coughing,  
the child becomes much exhausted, the pulse is

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quick & small; the body bathed in a clammy perspi-  
-ration, extremities cold; the voice low, scarcely  
above a whisper. Towards the close of the disease it  
is in some instances in the 1<sup>st</sup> stage.  
The disease having occurred thus variously, it  
admits various terminations. In many long, & in  
some short. The child dies on the 3<sup>d</sup> or 4<sup>th</sup> day, some  
on the 5<sup>th</sup> or 6<sup>th</sup>. Since the course I believe the dis-  
-ease may sometimes assume a form supposed to be  
-cessant, in which case the attack is not  
always similar. Sometimes it affails in the most  
violent manner terminating life in a few hours.  
Alexander mentions instances of its terminating  
life in twenty four hours from the commencement of its  
attack; it may on the other hand linger a much  
longer time & assume a chronic character. This  
difference will probably depend upon the constitu-  
-tion of the patient & the means resorted to, for  
correcting its progress. Causes. Of all the  
causes which predispose to croup, that of early  
life would seem to exert the greatest influence.

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so plausible explanation so far as I am acquainted  
has been given to this circumstance & may I not add  
that the probability is it will remain unexplained. This  
mere size of the larynx & trachea at this period of life  
cannot exert any agency in the production of the  
disease, but will doubtless when once established add  
much to its severity & danger. There may however  
be some thing in the nature of the lining membrane  
of the larynx & trachea at this age upon which the  
aptitude to the disease depends, independent of its  
secretory & vascular nature; unless this be true - a peculiar  
disposition or organization of the membrane would exist  
that renders one child more liable than another  
and there could be a predisposition in some children  
to croup from birth, independent of age cannot be  
doubted from the testimony to this point. After having  
suffered one attack a predisposition to a second is  
established & it is very seldom that a child is  
- subject to another attack. Croup  
increases to a greater extent in the spring & fall,  
than in the other seasons of the year, whether

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changes from heat to cold combined with moisture are the most frequent exciting cause of the disease. Small Pox, Measles & Scarlatina - more particularly the latter are sometimes the cause of Croup; after having diseased the mucous membranes generally are left in a state of irritation - a slight exposure may produce the disease; also a sudden cessation of the eruptions are not uncommonly followed by an alarming attack - croup - emphysema instances showing the relation which exists between the skin & mucous membranes. The period of childhood to which the disease is mostly attached is between one & five years of age; within this period there are more instances of occurrence than in the anterior & subsequent periods of life - it is a rare circumstance as I have previously mentioned for Croup to occur after puberty. Flaccid & robust children are said to be more liable to the disease than others. There can be no doubt likewise that the habit of dropping children, leaving their necks bare is often a frequent source of the disease.

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### Mortal Appearance.

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On opening the trachea the cause of death is made manifest: an effusion varying in consistence is seen in different portions of the respiratory tube; sometimes it is a thin frothy mucus, or of a mucous, lumulent nature in the upper part of the trachea & larynx; or <sup>it may present</sup> the appearance of a membrane more or less perfect, lining the trachea, larynx & extending into the bronchial ramifications. Dr Cheyne says if a child dies four or five days after an attack, we will sometimes find the air cells & bronchial tubes filled with a whitish gruel like matter; The lungs will not collapse on pressure owing to the interstitial effusion - in this case the inflammation has extended into the bronchiae, complicating Laryngo Bronchitis, 10th Bronchitis. I have said on a mortal inspection the cause of death was manifest, I allude here to inflammatory Croup, previously I have said no such appearances were to be met with in Spasmodic Croup - which is a very rare disease. In every case of death from Croup, a want of water retention of

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 lately about  
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 and feel that  
 we are in a  
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 position. I  
 believe it is  
 our duty to  
 stand by our  
 principles and  
 to fight for  
 freedom and  
 justice for all.  
 I am sure that  
 if we do this,  
 we will win in  
 the end.

the blood was the mediate cause - this I believe is the  
opinion of all Authors.

### Treatment in the First Stage.

Should the physician be called in during the roosting  
stage, before the disease is developed it may in nearly every  
instance be arrested. For this purpose Dr. Sewer is advising  
the external application of Iodo Iodine to the throat, at  
the same time nauseating doses of Ipecacuanha. It very  
seldom progresses any farther. The Dr. informs us when  
taken thus early. It rarely happens however, that the  
practitioner is called until the disease is fully formed  
- it then too often baffles the most abstruse reme-  
dies. The practice in this case will be governed by the  
symptoms; it is not necessary in every case to resort  
to Iodine. The true remedy where the pulse is quick & tense,  
temperature of the surface much above the normal  
standard - the respiration is laborious - cannot be  
applied to the patient as directed with. There is your  
- I am much as I have just stated about the medicine  
is - it is more energetic, for our diseases march  
with more rapid stride to the tomb than could

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when once fully developed. Among the remedies deserving 14  
considerance &c. calling first our attention. Significant  
first will be drawn at the first bleeding to make  
an instantaneous impression upon the disease & upon  
the system, by diminishing the quantity of blood alter-  
-ing the determination & unloading the lungs.

In young children it may sometimes be difficult  
to bleed from the arm, in urgent cases it has been  
advised in this dilemma to open the jugular vein.  
In determining upon the propriety of repeating &c.  
we shd be governed by the same symptoms as in the  
first instance - pulse, temperature & breathing.

Other remedies however ought to be tried before  
resorting to a second bleeding. After several bleed-  
-ings will be attended to what that means a further  
restriction a question of doubt whether here our course is  
a reasonable one in as they are directed to be placed above  
the sternum & to injure the trachea. There is some discrepan-  
-cy of opinion respecting the application of leeches. Dr. Cullen  
thinks deny their utility; they are in contrary opinion  
that an aggravation. The symptoms follow their applica-

ications  
confusion  
by general  
disorder  
in other  
Immediate  
Antimony  
which ad-  
dresses the  
heart & a-  
ports a  
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tinted  
blisters,  
ablation  
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carps of  
now it is  
increased  
the irac  
in his Th

- cations; Drs. Brown, & Huxham & Mcintosh advise them very 15  
confidently, after the force of the circulation has been diminished.  
By general bleeding, I cannot pretend to reconcile such  
discordant views; They are said to prove useful here, as  
in other inflammations in lessening the capillary.  
I immediately after general bleeding an ounce of tartarized  
Antimony sh<sup>d</sup> be given - 1 gr. to 3i of water, a teaspoonful of  
which administered every 10 or 15 minutes will generally  
arrest this runaway. Besides controlling the actions of the  
heart & arteries, equalizing the circulation, an emetic  
exerts a specific action upon the capillary system of  
vessels - restoring their natural exertions. At the same  
time Turpentine sh<sup>d</sup> be applied to the Throat in preference to  
Blisters, its action is much more prompt & powerful - before  
a blister could have any effect the disease may have been  
existed so rapidly as to occasion irreparable mischief, in  
cases of slow progress a blister is infeasible as the impres-  
sion it produces is more durable. If now the stomach is  
inaccessible to an emetic, the warm bath conjoined with  
the bleeding, vomiting is recommended by the Germans  
in this inflammation. The treatment I have described, is timely

administer  
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administered will in some cases arrest its further progress 16  
-gr. in other instances, though crippled it has not  
entirely relinquished its hold: here Calomel in the dose  
of 2, 5 or 5 grs every hour or two, combined with tartar  
emetic in nauseating doses, with a blister to the throat  
will generally remove every vestige of the disease.  
Calomel is said to prove beneficial by its reculsive  
actions & likewise evacuating the bowels. From its known  
action on the circulation may it not soothe the diseased  
actions as to subvert it? Should however the disease  
continue its onward march unchecked by these reme-  
dies & serious take place some alterations of treatment  
is demanded, the details of which I shall now proceed  
to give. Treatment of the Second Stage.

All efforts to resolve the inflammation having  
proved unavailing, & effusion has taken place,  
especially if it is of the consistence of coagulable  
mucus lining the larynx, trachea & bronchia (thus)  
a cure we are told by an eminent writer is to be  
considered. On this as an escape than a thing to be  
averted. It is for reasons since the pulse is weak

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and expectations bathed in a clammy perspiration. 17

Dr. Cheyne says he has never seen any advantage to be derived from V.S. at this period. Dr. Denes is of the same opinion. It would seem to exhaust the already sinking powers of the constitution to abstract blood after effusion, yet Dr. Cheyne and Dr. Denes advise it - should we doubt.

Emetics, are at most our sole reliance at this period to expel the deciduous membrane & remove the mucopurulent matter checking up the diaphragm, & closing of the respiratory tube. The stomach in some cases is very insensible to the impressions of an emetic, owing to the congestion of the brain - so much so, that Dr. Cheyne states he knew a child to take 50 & 60 grs of Tartar Emetic without producing vomiting. For the purpose of detaching the deciduous membrane Seneca is preferred by Dr. Denes & Elseby; the former says it creates a greater shock to the viscera & trachea. His formula for using it is to take half ounce of powdered Seneca root, water half pint, let it simmer until nearly reduced to a third - carefully & give to a child 5 or 6 to 8 years

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c o n  
G t e n

old a teaspoonful every 15 or 20 minutes until it fails; 18  
to a child older he gives two teaspoonful at a dose.  
Calomel sh<sup>d</sup> also be given in the dose of 3 to 5 grs every  
hour or two, with a view to its resorptive action, besides  
its tendency to alter the deranged secretions. Instead  
of the warm bath hot flannels to the surface, with  
frictions might probably answer a better purpose;  
a blister sh<sup>d</sup> be kept to the throat, which from the im-  
pression it produces has a tendency to withdraw  
irritations from the inflamed parts to the surface.  
Sores after the formation of the deciduous membrane  
have been accomplished, but they are so rare, as scarcely  
to form an exception to the rule - That when the  
effusion lines the larynx, trachea & bronchia in the  
form of a membrane, death may with certainty be expected.

Other remedies have been advised, but from the  
experience of the best Authors, I think I am justified  
in saying, when the above remedies fail, all  
human efforts will fail.

Will. S. Reid.





